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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

03/09/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

ZHU, WEIPING

ART UNIT PAPER NUMBER

1793

DATE MAILED: 03/09/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531.477	04/15/2005	Piotr Kula	122041	6504	

TITLE OF INVENTION: METHOD FOR UNDER-PRESSURE CARBURIZING OF STEEL WORKPIECES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on the nerwise in Block 1, by (a							
	ENCE ADDRESS (Note: Use BI		Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					y other accompanying	
OLIFF & BER P.O. BOX 3208: ALEXANDRIA	/2009								
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CC	ONFIRMATION NO.
10/531,477 TITLE OF INVENTION	04/15/2005 I: METHOD FOR UNDE	ER-PRESSURE CARBU	Piotr Kula RIZING OF STEEL V	WOR	KPIECES		122041		6504
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		06/09/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	ASS					
ZHU, W	EIPING	1793	148-206000		•				
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Uni	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form	data will appear on t	rnatives single or a tattor ll be or type he page an a	rely, e firm (having as a gent) and the nammers or agents. If printed. e) ttent. If an assignassignment.	membes of uno name	er a 2	ocum	ent has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr					1 0		•
4a. The following fee(s) Issue Fee Publication Fee (N Advance Order -	permitted)	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 							
5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY state		☐ b. Applicant is no	a lone	per claiming SMA	LLEN	ΓΙΤΥ status. See 37 Cl	FR 1	27(g)(2)
NOTE: The Issue Fee an	d Publication Fee (if requ	uired) will not be accepte	d from anyone other tl						
interest as snown by the	records of the United Sta	tes Patent and Trademark	Office.						
Authorized Signature					Date				
Typed or printed name			Registration No.						
an application. Confiden submitting the complete	tiality is governed by 35 dapplication form to the ions for reducing this but irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	1.14. This collection is depending upon the	is est: indiv	imated to take 12 i idual case. Any co	minutes	to complete, including on the amount of time	ig gat me vo	hering, preparing, and ou require to complete

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10/531,477	04/15/2005	Piotr Kula	122041	6504	
25944 75	590 03/09/2009		EXAM	INER	
OLIFF & BERR	IDGE, PLC	ZHU, WEIPING			
P.O. BOX 320850			ART UNIT	PAPER NUMBER	
ALEXANDRIA, V	A 22320-4850	1793			
		DATE MAILED: 03/09/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 337 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 337 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/531,477	KULA ET AL.		
Notice of Allowability	Examiner	Art Unit		
	WEIPING ZHU	1793		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communice of the communication is subjected in the communication of the communication is subjected in the communication in the co	nis application. If not included cation will be mailed in due cou	urse. THIS	
1. X This communication is responsive to applicant's amendme	nt filed on December 15, 2008	ł.		
2. ☑ The allowed claim(s) is/are <u>2-6</u> .				
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		(f).		
2. Certified copies of the priority documents have	been received in Application	No		
3. Copies of the certified copies of the priority do	cuments have been received i	n this national stage application	n from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.			
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			ICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or ir	the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Info	rmal Patent Application		
 Notice of Preferences Gred (110-032) DNotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Sun	• •		
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Ma 7. ⊠ Examiner's Ai	ail Date nendment/Comment		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	<u></u>	atement of Reasons for Allowa	nce	
of Biological Material 9. ☐ Other				
/Weiping Zhu/				
Examiner, Art Unit 1793				

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Jeremy D. Tillman on February 27, 2009.

The application has been amended as follows:

The specification has been amended as follows:

The following paragraph of should be inserted immediately before the first full paragraph on page 2 of the specification.

--The Figure of the present application describes metering ammonia in the underpressure carburization.—

Allowable Subject Matter

Claims 2-6 are allowed.

The following is an examiner's statement of reasons for allowance:

The applicant's amendment and remarks filed on December 15, 2008 and the declaration under 37 CFR 1.132 signed by the 1st named inventor Dr. Piotr Kula and filed on the same day have obviated the prior art recited in the Office action dated August 15. The prior art of record does not teach that when the temperature reaches

400 °C, introducing an active nitrogen carrier and when the temperature reaches the carburizing temperature, stopping the introducing of the active nitrogen carrier as claimed in the instant claim 2. The 1.132 declaration quantitatively demonstrates the criticality of the temperature range in terms of grain size growth and the amount of retained austenite. A further search for the references on record did not find any prior art which anticipates or renders obvious the claimed subject matter of the instant application alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Weiping Zhu whose telephone number is 571-272-6725. The examiner can normally be reached on 8:30-16:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Application/Control Number: 10/531,477

Art Unit: 1793

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WZ

2/27/2009

/George Wyszomierski/ Primary Examiner Art Unit 1793 Page 4